

Substitute for form 1448A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	8
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Complete if Known

Application Number	10/681,478
Filing Date	10-08-2003
First Named Inventor	Schall, Thomas J.
Art Unit	NOT YET ASSIGNED
Examiner Name	NOT YET ASSIGNED
Attorney Docket Number	019934-001620US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
MM	A1	US-3,379,729	04/23/1988	M. Proliva et al.	
	A2	US-5,529,771	06/25/1996	Hooks et al.	
	A3	US-5,652,133	07/29/1997	Murphy	
	A4	US-5,665,362	09/09/1997	Inglis et al.	
	A5	US-5,720,957	02/24/1998	Jones et al.	
	A6	US-5,753,476	05/19/1998	Jones et al.	
	A7	US-5,756,264	05/28/1998	Schwartz et al.	
	A8	US-5,763,217	06/09/1998	Cynader et al.	
	A9	US-5,824,318	10/20/1998	Mohr et al.	
	A10	US-5,843,458	12/01/1998	Jones	
	A11	US-5,846,806	12/08/1998	Jones et al.	
	A12	US-5,866,136	02/02/1999	Ramshaw et al.	
	A13	US-5,877,004	03/02/1999	Jones et al.	
	A14	US-5,908,780	08/01/1999	Jones	
	A15	US-5,939,320	08/17/1999	Littman et al.	
	A16	US-5,948,775	09/07/1999	Koko et al.	
	A17	US-5,965,897	10/12/1999	Czaplewski et al.	
	A18	US-5,998,160	12/07/1999	Berans	
	A19	US-6,028,169	02/22/2000	Kreider et al.	
	A20	US-6,031,080	02/29/2000	Williams, et al.	
	A21	US-6,033,671	03/07/2000	Frueh et al.	
	A22	US-6,034,102	03/07/2000	Aiello	
	A23	US-6,051,375	04/18/2000	Rose et al.	
	A24	US-6,051,428	04/18/2000	Fong et al.	
	A25	US-6,150,132	11/21/2000	Wells et al.	
	A26	US-6,420,121 B1	07/18/2002	J. Nelson et al.	

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Signature**

/Mary Mosher/

Date Considered

07/10/2006

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FOREIGN PATENT DOCUMENTS								
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
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	B18	PCT	WO 02/18954	A2	03/07/2002			<input type="checkbox"/>
	B19	PCT	WO 02/062296	A2	08/15/2002			<input type="checkbox"/>

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MM	C1	BEISSER, P.S., ET AL.; Viral Chemokine Receptors and Chemokines in Human Cytomegalovirus Trafficking and Interaction with the Immune System; <i>Current Topics in Microbiology and Immunology</i> ; 2002; pp. 203-234; Vol. 269; Springer; Berlin, DE.	
	C2	BEISSER, PATRICK S., et al.; Deletion of the R78 G Protein-Coupled Receptor Gene from Rat Cytomegalovirus Results in an Attenuated, Syncytium-Inducing Mutant Strain; <i>Journal of Virology</i> ; September 1999; pp. 7218-7230; Vol. 73, No. 9	
	C3	BEISSER, PATRICK S., et al.; The R33 G Protein-Coupled Receptor Gene of Rat Cytomegalovirus Plays an Essential Role in the Pathogenesis of Viral Infection; <i>Journal of Virology</i> ; March 1998; pp. 2352-2363; Vol. 72, No. 3	
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	C6	BORST, M.E., et al.; Development of a cytomegalovirus vector for somatic gene therapy; <i>Bone Marrow Transplantation</i> ; 2000; pp. S80-S82; Supp. 2	
	C7	BRANCH, ANDREA D.; A good antisense molecule is hard to find; <i>TIBS</i> 23; February 1998; pp. 45-50	
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	C10	CHEE, M.S., et al.; Human cytomegalovirus encodes three G protein-coupled receptor homologues; <i>Nature</i> ; April 19, 1990; pp. 774-777; Vol 344	
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	C12	CROOKE, STANLEY T. et al.; <i>Antisense Research and Applications; Basic Principles of Antisense Therapeutics</i> ; chapters 1-3; pp. 1-53	
	C13	CRYSTAL, RONALD G.; Transfer of Genes to Humans: Early Lessons and Obstacles to Success; <i>Science</i> ; pp. 404-410; 20 October 1995; Vol. 270;	
	C14	DAVIS-POYNTER, Nicholas J., et al.; Identification and Characterization of a G Protein-Coupled Receptor Homolog Encoded by Murine Cytomegalovirus; <i>Journal of Virology</i> ; February 1997; pp. 1521-1529; Vol. 71, No. 2	
✓	C15	DAVIS-POYNTER, Nicholas J., et al.; Masters of deception: A review of herpesvirus immune evasion strategies; <i>Immunology and Cell Biology</i> ; 1996; pp. 513-522; Vol. 74	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Application Number</i>	10/681,478
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				<i>First Named Inventor</i>	Schall, Thomas J.
				<i>Art Unit</i>	NOT YET ASSIGNED
				<i>Examiner Name</i>	NOT YET ASSIGNED
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MM	C16	FARRELL, H.E., et al.; Inhibition of natural killer cells by a cytomegalovirus MHC class I homologue <i>in vivo</i> ; <i>Nature</i> ; April 3, 1997; pp. 510-514; Vol. 386		
	C17	FLEMING, PETER, et al.; The Murine Cytomegalovirus Chemokine Homolog, m131/129, Is a Determinant of Viral Pathogenicity; <i>Journal of Virology</i> ; August 1999; pp. 6800-6809; Vol. 73, No. 8		
	C18	FRANCKEN, BART J.B., et al.; Human 5-Hydroxytryptamine _{5A} Receptors Activate Coexpressed G _i and G _o Proteins in <i>Spodoptera frugiperda</i> 9 Cells; <i>Molecular Pharmacology</i> ; pp. 1034-1044; May 2000; Vol. 57, No. 5		
	C19	GAO, JI-LIANG; et al.; Human Cytomegalovirus Open Reading Frame US28 Encodes a Functional γ Chemokine Receptor; <i>The Journal of Biological Chemistry</i> ; November 18, 1994; pp. 28539-28542; Vol. 269, No. 46		
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	C21	GenBank Accession No.: X53293; 1 December 1992		
	C22	GenBank Accession No: AF073831; 23 June 2000		
	C23	GenBank Accession No: AF073832; 23 June 2000		
	C24	GenBank Accession No: AF073833; 23 June 2000		
	C25	GenBank Accession No: AF073834; 23 June 2000		
	C26	GenBank Accession No: AF073835; 23 June 2000		
	C27	GenBank Accession No: L20501; 2 May, 1996		
	C28	GILBERT, MARK J., et al.; Cytomegalovirus selectively blocks antigen processing and presentation of its immediate-early gene product; <i>Nature</i> ; 24 October 1996; pp. 720-722; Vol. 383		
	C29	GOMPELS, U.A.; et al.; The DNA Sequence of Human Herpesvirus-6: Structure, Coding Content, and Genome Evolution; <i>Virology</i> ; 1995; pp. 29-51; Vol. 209		
	C30	GRUNDY, JANE E., et al.; Cytomegalovirus-Infected Endothelial Cells Recruit Neutrophils by the Secretion of C-X-C Chemokines and Transmit Virus by Direct Neutrophil-Endothelial Cell Contact and during Neutrophil Transendothelial Migration; <i>The Journal of Infectious Diseases</i> ; 1998; pp. 1465-1474; Vol. 177		
	C31	HA, HUNJOO, et al.; Atherogenic lipoproteins enhance mesangial cell expression of platelet-derived growth factor: Role of protein tyrosine kinase and cyclic AMP-dependent protein kinase A; <i>J Lab Clin Med</i> ; pp. 456-465; May 1998; Vol. 131, No. 5		
	C32	HARRISON, JEFFREY K., et al.; Role for neuronally derived fractalkine in mediating interactions between neurons and CX3CR1-expressing microglia; <i>Proc. Natl. Acad. Sci. USA</i> ; September 1998; pp. 10896-10901; Vol. 95		
↓	C33	HIRSCH, ALEC J., et al.; Human Cytomegalovirus Inhibits Transcription of the CC Chemokine MCP-1 Gene; <i>Journal of Virology</i> ; January 1999; pp. 404-410; Vol. 73, No. 1		

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MM	C34	HUMAR A., et al.; Elevated Serum Cytokines Are Associated with Cytomegalovirus Infection and Disease in Bone Marrow Transplant Recipients; <i>The Journal of Infectious Diseases</i> ; 1999; pp. 484-488; Vol. 179	
	C35	HWANG, EUNG-SOO, et al.; Induction of Neutralizing Antibody Against Human Cytomegalovirus (HCMV) with DNA-Mediated Immunization of HCMV Glycoprotein B in Mice; <i>Microbiol. Immunol.</i> ; 1999; pp. 307-310; Vol. 43, No. 3	
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	C37	KLEDAL, THOMAS N., et al.; Selective recognition of the membrane-bound CX3C chemokine, fractalkine, by the human cytomegalovirus-encoded broad-spectrum receptor US28; <i>FEBS Letters</i> ; 1998; pp. 209-214; Vol. 441, Elsevier Science Publishers, Amsterdam, NL.	
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	C40	KOTENKO, SERGEI, et al.; Human cytomegalovirus harbors its own unique IL-10 homolog (cmvIL-10); February 15, 2000, pp. 1695-1700, Vol. 97, No. 4	
	C41	KOYAMA, NORIYUKI, et al.; Heparan Sulfate Proteoglycans Mediate a Potent Inhibitory Signal for Migration of Vascular Smooth Muscle Cells; <i>Circulation Research</i> ; pp. 305-313; August 10, 1998; Vol. 83, No. 3	
	C42	KRAUSE, PHILIP R., et al.; Herpesvirus Vaccines: Development, Controversies, and Applications; <i>New Vaccines and New Vaccine Technology</i> ; March 1999; pp. 61-81; Vol. 13, No. 1	
	C43	KRAVITZ, RACHEL H., et al.; Cloning and characterization of rhesus cytomegalovirus glycoprotein B; <i>Journal of General Virology</i> ; 1997; pp. 2009-2013; Vol. 78	
	C44	KROPFF, BARBARA, et al.; Identification of the gene coding for rhesus cytomegalovirus glycoprotein B and immunological analysis of the protein; <i>Journal of General Virology</i> ; 1997; pp. 1999-2007	
	C45	KUHN, DONALD, E., et al.; The Cytomegalovirus US28 Protein Binds Multiple CC Chemokines with High Affinity; <i>Biochemical and Biophysical Research Communications</i> ; June 6, 1995; pp. 325-330; Vol. 211, No. 1	
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	C47	LOCKRIDGE, KRISTEN M.; et al.; Primate Cytomegaloviruses Encode and Express an IL-10-like Protein; <i>Virology</i> ; 2000; pp. 272-280; Vol. 268	

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MM	C48	MAHALINGAM, SURENDRAN, et al.; Chemokines and chemokine receptors in infectious diseases; <i>Immunology and Cell Biology</i> ; 1999; pp. 469-475; Vol. 77		
	C49	MANNING, WILLIAM et al. "Use of recombinant murine cytomegalovirus expressing vesicular stomatitis virus G protein to pseudotype retroviral vectors" <i>J. Virological Methods</i> , 1998, pp. 31-39, Vol. 73.		
	C50	MARGULIES, BARRY J., et al.; Identification of the Human Cytomegalovirus G. Protein-Coupled Receptor Homologue Encoded by UL33 in Infected Cells and Enveloped Virus Partides; <i>Virology</i> ; 1996; pp. 111-125; Vol. 225		
	C51	MARTIN, W. JOHN; Chemokine Receptor-Related Genetic Sequences in an African Green Monkey Simian Cytomegalovirus-Derived Stealth Virus; <i>Experimental and Molecular Pathology</i> ; 2000; pp. 10-16;		
	C52	MCNALL, STEVEN J., et al.; Novel Serotonin Receptors in <i>Fasciola</i> . Characterization by Studies on Adenylate Cyclase Activation and [3H]LSD Binding; <i>Biochemical Pharmacology</i> ; pp.2789-2797; 1984; Vol. 33, No. 17		
	C53	MICHELSON, S., Interaction of Human Cytomegalovirus with Monocytes/Macrophages: A Love-Hate Relationship; <i>Path. Biol.</i> ; 1997; pp. 146-158; Vol. 45, No. 2		
	C54	MICHELSON, SUSAN, et al.; Modulation of RANTES Production by Human Cytomegalovirus Infection of Fibroblasts; <i>Journal of Virology</i> , September 1997; pp. 6495-6500; Vol. 71, No. 9		
	C55	MICHELSON, SUSAN; Cytomegalovirus (CMV) and sequestration of chemokines; <i>Eur. Cytokine Netw.</i> ; June 1999; pp. 286-287; Vol. 10, No. 2		
	C56	MONTI, GIANPAOLA, et al.; Intrapulmonary Production of RANTES During Rejection and CMV Pneumonitis After Lung Transplantation; <i>Transplantation</i> ; June 27, 1996; pp. 1757-1762; Vol. 61, No. 12		
	C57	MURAYAMA, TSUGIYA, et al.; Potential Involvement of IL-8 in the pathogenesis of human cytomegalovirus infection; <i>Journal of Leukocyte Biology</i> ; July 1998; pp. 62-67; Vol. 64		
	C58	NEOTE, KULDEEP, et al. Molecular Cloning, Functional Expression, and Signaling Characteristics of a C-C Chemokine Receptor; <i>Cell</i> ; February 12, 1993; pp. 415-525; Vol. 72		
	C59	NISHIYORI, ATSUSHI, et al.; Localization of fractalkine and CX3CR1 mRNAs in rat brain: does fractalkine play a role in signaling from neuron to microglia?; <i>FEBS Letters</i> ; 1998; pp. 167-172; Vol. 429		
	C60	NORDØY, INGVLID, et al.; Immunologic Parameters as Predictive Factors of Cytomegalovirus Disease in Renal Allograft Recipients; <i>The Journal of Infectious Diseases</i> ; 1999; pp. 195-198; vol. 180		
✓	C61	PADIA, J.K., et al.; Novel Nonpeptide CCK-B Antagonists: Design and Development of Quinazolinone Derivatives as Potent, Selective, and Orally Active CCK-B Antagonists; <i>Journal of Medicinal Chemistry</i> ; pp. 1042-1049; 1998; Vol. 41, No. 7		

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MM	C62	PADIA, J.K., et al; Design and Synthesis of Novel Nonpeptide CCK-B Receptor Antagonists; <i>Bioorganic & Medicinal Chemistry Letters</i> ; pp. 805-810; 1997; Vol. 7, No. 7	
	C63	PALÙ, GIORGIO, et al.; In pursuit of new developments for gene therapy of human diseases; <i>Journal of Biotechnology</i> ; pp. 1-13; 1999; Vol. 68	
	C64	PASS, ROBERT F., et al.; A Subunit Cytomegalovirus Vaccine Based on Recombinant Envelope Glycoprotein B. and a New Adjuvant; <i>The Journal of Infectious Diseases</i> ; 1999; pp. 970-975; Vol. 180	
	C65	PENFOLD, MARK E.T.; et al.; Cytomegalovirus encodes a potent γ chemokine; <i>Proc. Natl. Acad. Sci. USA</i> ; August 1999; pp. 9839-9844; Vol. 96	
	C66	PLESKOFF, OLIVIER, et al; The Cytomegalovirus-Encoded Chemokine Receptor US28 Can Enhance Cell-Cell Fusion Mediated by Different Viral Proteins; <i>Journal of Virology</i> ; August 1998; pp. 6389-6397; Vol. 72, No. 8	
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Examiner Signature	/Mary Mosher/	Date Considered	07/10/2006
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				<i>Application Number</i>	10/681,478
				<i>Filing Date</i>	10-08-2003
				<i>First Named Inventor</i>	Schall, Thomas J.
				<i>Art Unit</i>	NOT YET ASSIGNED
				<i>Examiner Name</i>	NOT YET ASSIGNED
Sheet	8	of	8	<i>Attorney Docket Number</i>	019934-001620US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MM	C79	SWISS-PROT Accession No. P16849; 1 August 1990	
↓	C80	THÄLE, REGINE, et al.; Identification and Expression of an Murine Cytomegalovirus Early Gene Coding for an Fc Receptor; <i>Journal of Virology</i> ; December 1994; pp. 7757-7765; Vol. 68, No. 12	
	C81	TOMASEC, PETER, et al.; Surface Expression of HLA-E, an Inhibitor of Natural Killer Cells, Enhanced by Human Cytomegalovirus gpUL40; <i>Science</i> ; February 11, 2000; pp. 1031-1033; Vol. 287	
	C82	VERMA, INDER M., et al.; Gene therapy - promises, problems and prospects; <i>Nature</i> ; pp. 239-242; 18 September 1997; Vol. 389	
	C83	VIEIRA, JEFFREY, et al.; Functional Analysis of the Human Cytomegalovirus US28 Gene by Insertion Mutagenesis with the Green Fluorescent Protein Gene; <i>Journal of Virology</i> ; October 1998; pp. 8158- 8165; Vol. 72, No. 10	
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Examiner Signature	/Mary Mosher/	Date Considered	07/10/2006
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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